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### [1. ST13A-004: A Flexible and Extensible Solution to Incorporating New RF Devices and Capabilities into EW/ ISR Networks](#)

Release Date: 01-25-2013Open Date: 02-25-2013Due Date: 03-27-2013Close Date: 03-27-2013

OBJECTIVE: Develop a representation with formal semantics for the static and dynamic characteristics of Radio Frequency (RF) devices. DESCRIPTION: In military applications, RF devices constitute a heterogeneous network of receivers/transmitters deployed primarily for the purpose of communicating tactical information. However, current RF devices are highly versatile and have the potential of fulfilling various functions in support of various tasks such as Situational Awareness, Electronic Warfare/Intelligence, Surveillance and Reconnaissance (EW/ISR).

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### [2. OSD11-IA6: Active Software Defense to Reduce Threat Capability Effectiveness](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Information SystemsOBJECTIVE: Develop innovative software protection technology containing the ability to support the active defense of critical software applications.

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### [3. OSD11-CR2: Adaptive Desktop Trainer for ISR Imagery Analysis Based on Contextual Factors](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Human SystemsOBJECTIVE: Develop an adaptive desktop training device with underlying learning management system (LMS) architecture to train ISR imagery analysis for better decision making by warfighters.

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### [4. OSD11-CR1: Adaptive, individualized training assessment capability \(AITAC\)](#)

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date: 09-28-2011

TECHNOLOGY AREAS: Information Systems, Human SystemsOBJECTIVE: The objective of this topic is to develop and implement a technique for building individualized representations of trainee performance that can be used to assess current performance and to forecast future training needs.

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**5. [SB123-001: Adhesive Bond Strength of Bonded Structures in Confined Locations](#)**

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Develop an inspection system to measure the adhesive bond strength for bonded composite structures that are contained near edges or in confined spaces. DESCRIPTION: Bonded composite materials offer considerable opportunity to reduce manufacturing cost, improve structural performance, and improve fuel efficiency of aircraft. However, bonded composite aircraft structures continue to b ...

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**6. [ST12B-001: Advanced Materials and Methods for Biospecimen Collection for Infectious Disease](#)**

Release Date: 07-26-2012 Open Date: 08-27-2012 Due Date: 09-26-2012 Close Date: 09-26-2012

OBJECTIVE: Develop advanced materials and technologies for swab or swab-like collection of bio-specimens that can be used by a minimally-trained individual, and shipped/stored under ambient conditions. These technologies would advance methods to collect bio-specimens, such as naso/oropharyngeal swabs, for the diagnosis of some respiratory diseases. Developed swabs should be optimized for bios-p ...

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**7. [N113-181: Advanced Medium-Voltage, High-Power Charging Converter for Pulsed Power Applications](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Ground/Sea Vehicles, Electronics ACQUISITION PROGRAM: PMS 320, Electric Ship Office

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**8. [SB113-004: Advanced Propellants Capable of Controllable and Regulated Burns](#)**

Release Date: 07-28-2011 Open Date: 08-29-2011 Due Date: 09-28-2011 Close Date: 09-28-2011

TECHNOLOGY AREAS: Materials/Processes, Weapons

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**9. [ST13B-001: Advanced Tools for Mammalian Genome Engineering](#)**

Release Date: 07-26-2013Open Date: 08-26-2013Due Date: 09-25-2013Close Date:  
09-25-2013

OBJECTIVE: Improve the utility of Human Artificial Chromosomes (HACs) by developing new selectable metabolic markers for use in human cells, new high-fidelity methods for inserting DNA constructs of at least 50,000 base pairs (bp) in length into defined genomic loci, and new methodologies for facile intercellular genome transplantation. DESCRIPTION: The ability to deliver exogenous DNA to mamma ...

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**10. [OSD11-IA1: Anti-Exploitation Software Protection Systems](#)**

Release Date: 07-28-2011Open Date: 08-29-2011Due Date: 09-28-2011Close Date:  
09-28-2011

TECHNOLOGY AREAS: Information SystemsOBJECTIVE: Develop software protection systems that are difficult to exploit once an adversary gains entry.

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